ABSTRACT

A Wireless Local Area Network (WLAN) processing component includes a network interface and a processor. The network interface interfaces the WLAN processing component to a plurality of Wireless Access Points (WAPs) of the WLAN, at least some of the plurality of

5   WAPs having directional antennas. The WLAN processing component directs the plurality of WAPs to perform a plurality of beaconing operations, each of the beaconing operations corresponding to a respective WAP of the plurality of WAPs such that during the beaconing operation the respective WAP transmits a substantially constant power beacon. During the beaconing operations, the WLAN processing component directs non-beaconing WAPs having

10   directional antennas to listen for the transmitted beacon, direct an approximate maximum gain vector of the directional antenna toward the transmitted beacon, determine a relative angular position of the approximate maximum gain vector, and measure a received strength of the transmitted beacon. The WLAN processing component then uses collected information to determine relative radio positions of the plurality of WAPs within the WLAN.

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